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## Claims

1. A water treatment cartridge, said water treatment cartridge having a major and a minor axis in a horizontal cross-section, with mounting lugs being provided at the upper end of the cartridge, generally aligned with the major axis of the cartridge.
2. A water treatment cartridge as claimed in claim 1 wherein no mounting lugs extend from any other part of the cartridge.
3. A water treatment cartridge as claimed in claim 1 or 2 wherein the cartridge is provided with a sealing surface, preferably a circular sealing surface, arranged radially inwardly of the mounting lugs.
4. A mounting part of or for a water treatment cartridge, said mounting part having a generally circular sealing surface, and having mounting lugs arranged at opposed ends thereof along an elongate direction of the mounting.
5. A water treatment cartridge having a mounting part as claimed in claim 4 as an integral part thereof or a separate element.
6. Apparatus as claimed in any preceding claim wherein the cartridge body, or at least its mounting part, is generally elliptical in horizontal cross-section.
7. Apparatus as claimed in any preceding claim wherein the mounting lugs are planar and extend for a significant distance around the periphery of the cartridge, most preferably at least 15° around the periphery.

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8. Apparatus as claimed in any preceding claim wherein the mounting lugs are arcuate in shape.

5 9. Apparatus as claimed in any preceding claim wherein the mounting lugs mount the cartridge in a bayonet type fitting.

10 10. Apparatus as claimed in any preceding claim wherein the lower edge of the lug periphery is chamfered such that as the mounting lug is rotated onto a receiving surface, the chamfer acts to cam the cartridge into sealing engagement with a or the seal.

15 11. Apparatus as claimed in claim 10 wherein the chamfer profile is substantially the same around the entire lug periphery.

20 12. Apparatus as claimed in any preceding claim wherein the cartridge, or at least the lugs thereof, are made from a plastics material, preferably a heat resistant plastics material.

25 13. Apparatus as claimed in claim 12 wherein the plastics material is resistant to degradation by gamma radiation.

30 14. A water treatment cartridge comprising a body made of a heat resistant plastics material which does not suffer degradation by gamma radiation.

35 15. Apparatus as claimed in any of claims 1 to 12 wherein the cartridge body is made from metal, preferably a thin sheet material such as stainless steel or treated aluminium.

16. A domestic water treatment cartridge comprising a body made at least in part of a thin sheet metal

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material.

17. Apparatus as claimed in any preceding claim wherein the cartridge is provided with a sealing surface which  
5 cooperates with a resilient seal member provided on the water treatment appliance to which it is mounted.

18. Apparatus as claimed in claim 17 wherein the  
10 cartridge sealing surface is provided at least in part on an inwardly facing wall of the cartridge.

19. A water treatment cartridge comprising a sealing  
surface arranged inwardly of its periphery, said sealing  
surface being formed, at least in part, by at least a  
15 portion of an inwardly facing, downwardly extending wall.

20. A water treatment appliance comprising a downwardly  
depending wall, and a seal mounted on the outwardly  
20 facing surface of the wall for engagement with a sealing surface provided on a water treatment cartridge.

21. Apparatus as claimed in claim 19 or 20 wherein the  
sealing surface is formed around the corner between an  
25 upwardly and inwardly facing surface of the upper part of the cartridge.

22. Apparatus as claimed in claim 21 wherein the corner  
is rounded or chamfered.

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23. Apparatus as claimed in any of claims 19 to 22  
wherein the inwardly facing wall tapers inwardly from  
top to bottom.

35 24. A water treatment cartridge comprising an upper surface having an inwardly facing downwardly depending wall, said wall being inwardly tapering.

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25. Apparatus as claimed in any of claims 19 to 24 wherein the inwardly facing wall forms the radially outer wall of an annular channel extending around the top of the cartridge.

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26. Apparatus as claimed in claim 25 wherein water inlet openings are provided in the inwardly facing wall.

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27. Apparatus as claimed in claim 25 or 26 wherein water inlet openings are also provided in the radially inner, outwardly facing wall of the channel.

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28. Apparatus as claimed in claim 27 wherein the inner wall has a smaller open area than the outer.

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29. A water treatment cartridge having an upper surface provided with an annular channel, water inlet openings being provided on both the inner and outer walls of the annular channel.

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30. Apparatus as claimed in any of claims 27 to 29 wherein the inlet openings are provided in a lower part of the outer wall and an upper part of the inner wall.

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31. Apparatus as claimed in any of claims 25 to 30 wherein vent openings at the top of the enclosed area.

32. Apparatus as claimed in any of claims 25 to 30 wherein one or more ribs extend across the annular channel.

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33. Apparatus as claimed in any preceding claim wherein the cartridge comprises a cartridge body whose upper end is closed by a cap.

34. Apparatus as claimed in any preceding claim further comprising a grille provided at the bottom of the

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container body.

35. Apparatus as claimed in claim 34 wherein the grille  
retains treatment particles away from a restricted  
5 opening in the base of the container body.

36. Apparatus as claimed in claim 35 wherein the grille  
is snap fitted into the container body which is provided  
with suitable retaining means, for example a retaining  
10 lip formed on its inside surface.

37. Apparatus as claimed in claim 34, 35 or 36 wherein  
the grille is formed with an upwardly dished outer  
portion in which air will collect in preference to the  
15 grille surface and which when arranged within the  
container body is spaced from the container body such  
that air can escape between the container body and the  
dished portion of the grille.

20 38. A water treatment cartridge comprising a cartridge  
body and a grille arranged at the base of the body, said  
grille having a dished outer portion which, when  
arranged within the container body, is spaced from the  
container body such that air can escape between the  
25 container body and the dished portion of the grille.

39. Apparatus as claimed in claim 37 or 38 wherein the  
cartridge body is curved in the region at least of the  
grille, allowing a spacing to be formed between the  
30 dished periphery of the grille and the body wall.

40. A water treatment cartridge having a cartridge body  
which tapers in a curved manner from the top to the  
bottom of the cartridge.

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41. Apparatus as claimed in claim 39 or 40 having a  
major and minor axes and the taper aligned with the

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major axis of the cartridge.

42. Apparatus as claimed in any preceding claim 39, 40  
or 41 wherein the curve extends substantially to the  
5 centre line of the cartridge.

43. Apparatus as claimed in any of claims 39 to 41  
wherein both the front and rear walls of the cartridge  
are so tapered.  
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44. Apparatus as claimed in any preceding claim wherein  
means are provided on the cartridge which prevent the  
cartridge being used in an inappropriate appliance.

45. A liquid heating appliance comprising a water  
treatment cartridge, means being provided on the  
cartridge and on a mounting location for the cartridge  
to prevent an incorrect cartridge being mounted therein.  
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46. Apparatus as claimed in claim 44 or 45 wherein one  
or more keys provided in a portion of the cartridge with  
a complementary key being provided in the mounting  
location.  
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47. Apparatus as claimed in claim 46 wherein the key(s)  
are provided on a peripheral surface of the cartridge,  
in a mounting lug for the cartridge or on an inner wall  
of the cartridge.  
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48. Apparatus as claimed in any preceding claim wherein  
the treatment cartridge has associated with it a counter  
which can be used to indicate the degree of usage of the  
cartridge.  
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49. Apparatus as claimed in claim 48 wherein the  
cartridge is provided with means which, upon rotation of  
the cartridge into or out of position engage with an  
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actuator for resetting a usage counter.

50. A water treatment cartridge comprising means which, upon rotation of the cartridge into or out of position engage with an actuator for resetting a usage counter for the cartridge.

51. A water treatment appliance comprising a counter indicating usage of a treatment cartridge, and an actuator for resetting said counter automatically when the cartridge is removed or replaced.

52. Apparatus as claimed in any preceding claim wherein the cartridge also comprises a particle filter.

53. A water treating appliance comprising a chamber for receiving untreated water, said chamber having an outflow opening and having a treatment cartridge as claimed in any preceding claim mounted in fluid communication with the opening for receiving water from the chamber for treatment.

54. A water treatment jugs comprising a water treatment cartridges as claimed in any of claims 1 to 53 attached to the bottom of a receptacle for water to be treated.

55. A liquid heating appliance comprising a cartridge as claimed in any of claims 1 to 53 attached to a mount which may be provided on the appliance itself or on a receptacle for receiving water to be treated.

56. A liquid heating appliance as claimed in claim 55 wherein the cartridge fits on to a wall of the heating vessel, for example the lid of the heating vessel.

57. A liquid heating appliance as claimed in claim 55 or 56 wherein said mount is also be provided with

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sealing means to allow a hopper to be placed on top of the mounting means to supply water to the treatment cartridge.

5 58. A liquid heating appliance as claimed in claim 57 wherein the mount comprises an inwardly extending resilient lip which seals against a depending wall provided on the hopper to prevent water escaping between the hopper and the mount.

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59. A mount for a water treatment cartridge, said mount having means to mount the cartridge and also having a seal for sealing a water receiving hopper receivable thereon.

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60. A liquid heating appliance as claimed in claim 58 wherein the hopper is provided with a valve which is operated when the hopper has entered into sealing engagement with the mount.

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61. A liquid heating appliance as claimed in claim 60 wherein a top portion of the cartridge acts on the valve to operate it.

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62. A water treatment apparatus having a water treatment cartridge mounted in a water receiving vessel which receives a hopper for containing untreated water, said hopper having valve means which is opened by an upper surface of the cartridge when the hopper is placed on the vessel.

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63. A water treatment cartridge having an upper surface provided with an annular channel, water inlet openings being provided on at least one wall of the channel.

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64. A water treatment cartridge having planar mounting lugs provided at the upper end of the cartridge.